

RF Exposure Evaluation

FCC ID: 2AFRJ-KEYFOB

1. Client Information

Applicant	:	Noke
Address	:	2000 Ashton Blvd, Suite 375, Lehi, UT 84043
Manufacturer	:	Noke
Address	:	2000 Ashton Blvd, Suite 375, Lehi, UT 84043

2. General Description of EUT

EUT Name	:	Noke
Models No.	:	keyfob
Model Difference	:	N/A
Product Description	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	RF Output Power:	BLE:-0.145dBm
	Antenna Gain:	2dBi PCB Antenna
Power Supply	:	DC Voltage supplied by DC battery.
Power Rating	:	DC 3V by DC battery
Software Version	:	N/A
Hardware Version	:	N/A
Connecting I/O Port(S)	:	Please refer to the User's Manual

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR}$$

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-0.145	0 ± 1	1	1.25	0.390	3.0
2.442	-0.303	0 ± 1	1	1.25	0.390	3.0
2.480	-0.740	0 ± 1	1	1.25	0.390	3.0

The worst RF Exposure Evaluation is $0.390/ \text{cm}^2 < \text{limit } 3.0$, So standalone SAR measurements are not required.

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